TO	21	49
	01	40

1			VIET S
(Da	ges		3)
(FH	262	-	. 31

Reg.	No				

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, APRIL 2012

Second Semester

Vocational Course—PROGRAMMING LANGUAGE I_ANSI C

		1	ocational Course—PRO	GRAWIVII	NG LANGUAGE I—ANSI C	
		(1	For the Vocational Subject	Computer	Applications of Model-II Physics)	
Time:	Thre	ee Hou	rs Annua va ta		Maximum W	eight : 28
				Part A		
			Answer all	auestions f	rom this section.	
				The state of the s	s section carries a weight of 1.	
I.	Fill	the bla	anks with appropriate word	ls:		
	1.	All ke	ywords in C must be writte	en in ——	Cultivative and national for the land	
	2.	The co	onversion spicier ——— is	s used to pr	int integers in hexadecimal form.	
	3.	The -	——— Specification is use	ed to read a	and write a short integer.	
	4.	The b	ackslash character constan	nt '\n' mean	ns ———.	
II.	Fill	the bla	anks with appropriate word	ls:		
	5.	The o	perator ——— can't be u	sed with re	eal operands.	
	6.	Arith	metic Operator has higher	priority ov	er — Operators in ANSI-C.	
	7.	-	— is the Output for the	expression	1 9−12/(3 + 3) *(2 −1).	
	8.	The –	statement is used t	o skip a pa	rt of the statement in loop.	
III.	Sele	ect the	most appropriate:			
	9.	Which	data type is not supported	d by ANSI-	What is all the narkyment Operator: D	
		(a)	Primary data type.	(b)	Derived data type.	
		(c)	Secondary data type.	(d)	User-defined data type.	
	10.	Choos	se the correct short hand or	erator for	the statement ' $a = a \% b$ ':	
		(a)	a % b.	(b)	a% = b.	
		(c)	b = a % a.	(d)	a = % b.	
	11.	Range	e of un signed character (cl	nar) type:		
		(a)	0 to 255.		0 to 254.	
		(c)	-255 to 0.	(d)	1 to 255.	
	12.	Choos	e the correct expression for	r the algeb		
		(a)	$a \times b - c$.	(b)	a * b/c.	
		(c)	alc * h	(d)	$a \times h/c$	

IV.	Select the most appropriate:				
	13.	Which is not 'math' function	:		

(a) $\sin(x)$.

(b) $\cos(x)$.

(c) sec(x)

- (d) $\operatorname{sqrt}(x)$.
- 14. Which code is used to print floating point value:
 - (a) % f.

(b) %float.

(c) %F.

- (d) f%.
- 15. Which is not the following are valid identifier:
 - (a) record_1.

(b) \$tax.

(c) name.

- (d) file_5.
- 16. Output for the expression 'for (n = 1; n + 2; n < 10)':
 - (a) 23.

(b) 24

(c) 22.

(d) 25.

 $(4 \times 1 = 4)$

Part B

Answer any five questions from this section. Each question carries a weight of 1.

- 17. Explain bitwise operator used in C.
- 18. Explain the general form of Input function used in C-language.
- 19. How does the two dimensional arrays are initialized?
- 20. Write the Syntax of 'FOR' loop.
- 21. What is all the assignment Operators?
- 22. Explain 'Jumps' in loops.
- 23. How the function does is called?
- 24. What are all the different types of 'If statements used in C? Explain any one.

 $(5 \times 1 = 5)$

Part C

Answer any **four** questions from this section. Each question carries a weight of 2.

- 25. Write an interactive program that will read the positive integer and generate the Fibonacci series till that value.
- 26. Calculate the average of n-numbers, then compute the deviation of each numbers about the average.
- 27. Write a program to read a positive integer which is 5-digit long and sums the digits in it.

- 28. Write a program to find the given year is leap year or not.
- 29. Given a point (x, y). Write a program to find out if it is lies in the First, Second, Third or Fourth Quadrant in x y plane.
- 30. Write a C-Program to convert the given temperature in Fahrenheit to Celsius.

 $(4 \times 2 = 8)$

Part D

Answer any **two** questions from this section. Each question carries a weight of 4.

- 31. What is recursive function? What its use? Write a program to explain recursive function.
- 32. Explain in detail need and elements of 'user defined function'? Also explain multifunction program.
- 33. Given are two one dimensional arrays A and B which are sorted in ascending order. Write a program to merge them into a single sorted array 'D' that contains every item from arrays A and B, in ascending order.

 $(2 \times 4 = 8)$